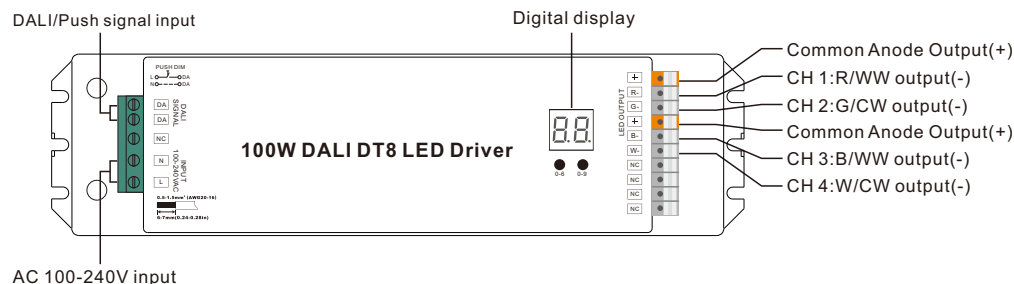


**Important:** Read All Instructions Prior to Installation

## Function introduction



## Product Data

Output	LED Channel	4
	DC Voltage	24V DC
	Max. Current	Max. 4.1A/ch, ch1+ch2+ch3+ch4=4.1A
	Voltage Tolerance	±1%
	Rated Power	max. 100W
Input	Voltage Range	100-240V AC
	Frequency Range	50/60Hz
	Power Factor (Typ.)	> 0.90 @ 230VAC
	Total Harmonic Distortion	THD ≤ 15% (@ full load / 230VAC)
	Efficiency (Typ.)	90% @ 230VAC full load
	AC Current (Typ.)	1.2A @ 100VAC, 0.5A @ 230VAC
	Inrush Current (Typ.)	COLD START Max. 50A @ 230VAC
Control	Leakage Current	< 0.5mA /230VAC
	Dimming Interface	DALI DT8 (DALI consumption<2mA)/Push
	Dimming Range	0.1%-100%
	Dimming Method	Pulse Width Modulation
Protection	Dimming Curve	Logarithmic
	Over Current	Yes, recovers automatically after fault condition is removed
Protection	Over Temperature	Yes, recovers automatically after fault condition is removed

Environment	Working Temp.	-20 ~ +45
	Max. Case Temp.	75°C (Ta= "45°C")
	Working Humidity	10% ~ 95% RH non-condensing
	Storage Temp. & Humidity	-40°C ~ +80°C, 10% ~ 95% RH
Safety & EMC	Safety Standards	TUV EN61347-1, EN61347-2-13 approved
	Withstand Voltage	I/P-O/P: 3.75KVAC
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25 / 70% RH
	EMC Emission	EN55015, EN61000-3-2, EN61000-3-3
	EMC Immunity	EN61547, EN61000-4-2,3,4,5,6,8,11, , surge immunity Line-Line 1KV
Others	MTBF	188700H, MIL-HDBK-217F @ 230VAC full load and 25°C ambient temperature
	Dimension	244*64*32mm (L*W*H)

- 6 in 1 dimmable LED driver, max. output power 100W total
- 6 universal device types in 1: Tc, T.c, X.6, XY, r9, t6 can be set by the buttons
- In compliance with IEC 62386-101:2014, IEC 62386-102:2014, IEC 62386-207 Ed2, IEC 62386-209:2011
- Built-in DALI-2 interface, DALI DT8 device
- 100-240VAC wide input voltage
- 4 channels DC 24V constant voltage output
- Class 1 power supply, full isolated plastic case
- Standby power consumption less than 0.5W , meet latest ERP regulations
- High power factor and efficiency
- Built-in DALI interface, DALI DT8 device, each device is controlled via a single DALI address
- Any one of three DT8 color types RGBW, XY Coordinate, Tc can be preset by factory setting
- Color control according to DALI specifications of device type 8
- Compatible with universal DALI masters that support DT8 commands
- IP20 rating, suitable for indoor LED lighting applications
- 5 years warranty

## Safety & Warnings

- DO NOT install with power applied to the device.
- DO NOT expose the device to moisture.

## Operation

### 1. Select a DALI Device Type



1.1. Press and hold down both buttons until digital display flashes, then release the button.

1.2. Keep clicking the 2nd button, you will get the 8 device types one by one as follows, 6 of them are valid modes, please ignore the other 2 modes which are invalid here:

**7C**, means 2 Tc color type devices integrated in one control gear, which can control 2 groups of tunable white LED separately using 2 DALI addresses under this mode.

**HC** (invalid mode since this mode requires 5 PWM channels), means XY & Tc color type devices integrated in one control gear, which can control RGB & CCT LED separately using 2 DALI addresses under this mode.

**RC** (invalid mode since this mode requires 5 PWM channels), means RGBWAF & Tc color type devices integrated in one control gear, which can control RGB & CCT LED separately using 2 DALI addresses under this mode.

**H6**, means XY & DT6 type devices integrated in one control gear, which can control RGB & W LED separately using 2 DALI addresses under this mode.

**H4**, means XY coordinate color type, which can control RGB LED using 1 DALI address under this mode.

**7C**, means Tc color type, which can control tunable white LED using 1 DALI address under this mode.

**RG**, means RGBWAF color type, the device can control RGBW LED using 1 DALI address under this mode.

**76**, means DT6 device type, which can control single color LED using 1 DALI address under this mode.

1.3. Select a device type you would like and then press and hold down both buttons until digital display stops flashing to confirm the selection.

### 2. Setting DALI address



2.1. Press and hold down the first button on the left until digital display flashes, then release the button.

2.2. Click any of the two buttons once to select a digit, click again to change the digit until the desired DALI address appears. Click first button to set "tens" position and second button to set "units" position. The address can be set from 00~63.

2.3. Then press and hold down any of the 2 buttons until the numeric digital display stops flashing to confirm the setting.

**Note:** DALI address can be manually assigned from 00-63-FF, by factory defaults, no DALI address is

assigned for the dimmer, and the display shows **FF**. Setting DALI address as **FF** will reset the dimmer to factory defaults.

3. Once an address is selected, depending on the device type selected, the control gear may occupies 2 consecutive addresses or 1 address. For example, if the control gear is addressed to 22 on the display, when the device type is multi-addresses type, the control gear occupies address 22 & 23, when the device type is single-address type, the control gear occupies address 22.

### 4. DALI Address Assigned by DALI Masters

DALI address can also be assigned by DALI Master controller automatically, please refer to user manuals of compatible DALI Masters for specific operations.

**Note:** The digital display will show **RU** When the DALI master is assigning addresses. When the device type is multi-addresses type, the control gear will be discovered as 2 separate devices.

## 5. Push Dimmer Mode

While connected with an AC push switch, the digital display will show "PD" which means Push Dimmer Mode, operations under Push Dimmer Mode are as follows:

While **7C** device type is selected, only the 1st group tunable white LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and color temperature mode.
- Press and hold down the button to change color temperature under color temperature mode.

While **H6** device type is selected, only the RGB LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and RGB color mode.
- Press and hold down the button to change RGB colors under RGB color mode.

While **H4** or **RG** device type is selected, RGB LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and RGB color mode.
- Press and hold down the button to change RGB colors under RGB color mode.

While **7C** device type is selected, tunable white LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.
- Double click the button to switch between brightness mode and color temperature mode.
- Press and hold down the button to change color temperature under color temperature mode.

While **76** device type is selected, single color LED will be controlled by the push switch,

- Click the button to switch ON/OFF
- Press and hold down the button to increase or decrease light intensity to desired level and release it, then repeat the operation to adjust light intensity to opposite direction. The dimming range is from 1% to 100%.

Memory function after power off or power failure enables the device to memorize the status before power off while power on again.

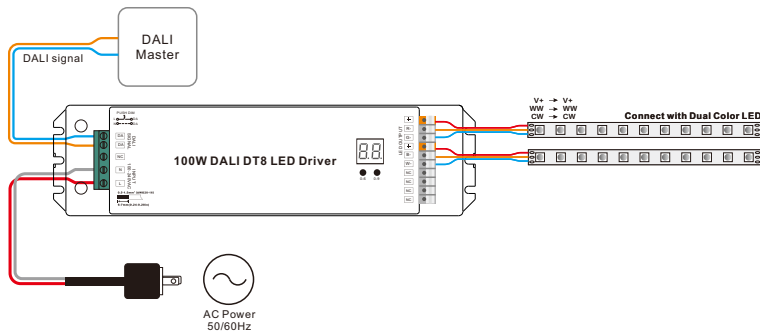
## Product Dimension



## Wiring Diagram

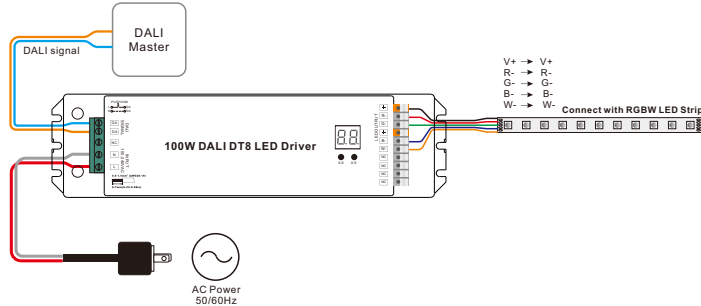
### 1. With DALI Master

#### 1.1 When **7c** multi-addresses Tc device type selected



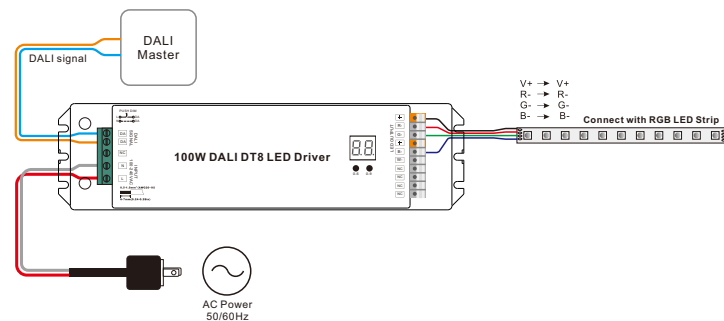
Note: 1) Please make sure that the DALI master controller supports Tc color type commands.  
2) The control gear will be discovered by master controller as 2 separate Tc devices.

#### 1.2 When **H6** multi-addresses XY+Single Color(DT6) device type selected



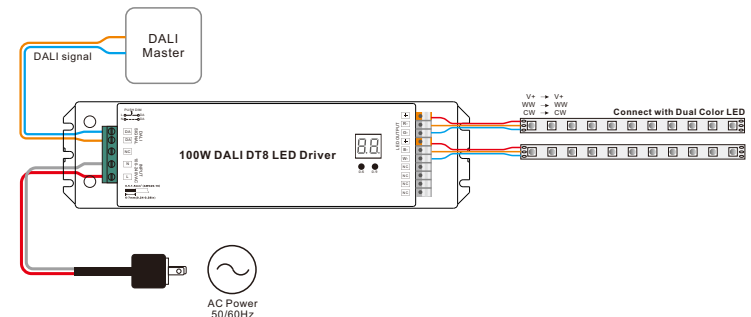
Note: 1) Please make sure that the DALI master controller supports XY & DT6 color type commands.  
2) The control gear will be discovered by master controller as 2 separate devices: XY, DT6

#### 1.3 When **H4** single-address XY device type selected



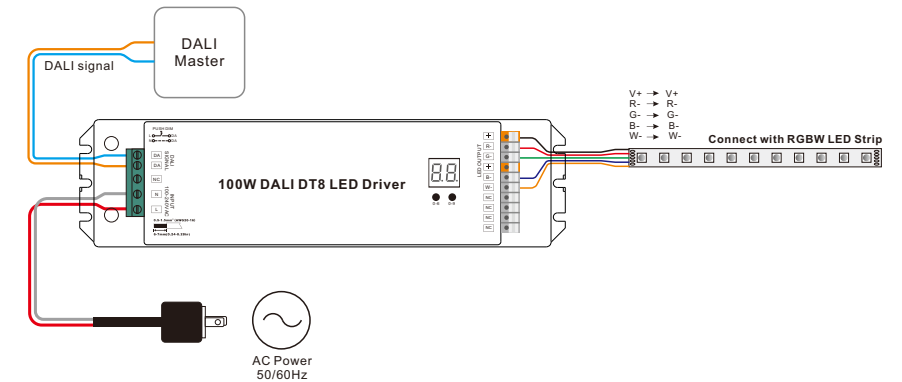
Note: Please make sure that the DALI master controller supports XY color type commands.

#### 1.4 When **7c** single-address Tc device type selected



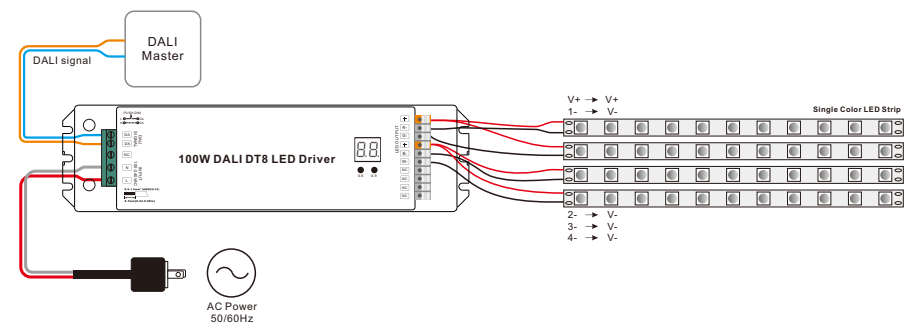
Note: 1) Please make sure that the DALI master controller supports Tc color type commands.  
2) 2 groups CCT LED are controlled together.

#### 1.5 When **9** single-address RGBWAF device type selected



Note: Please make sure that the DALI master controller supports RGBWAF color type commands.

#### 1.6 When **76** single-address DT6 device type selected

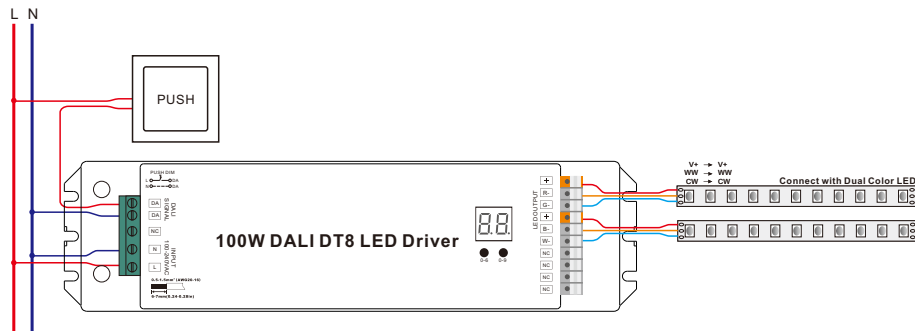


Note: The control gear will be discovered by DALI master as a DT6 device, 4 channels controlled together.

## Wiring Diagram

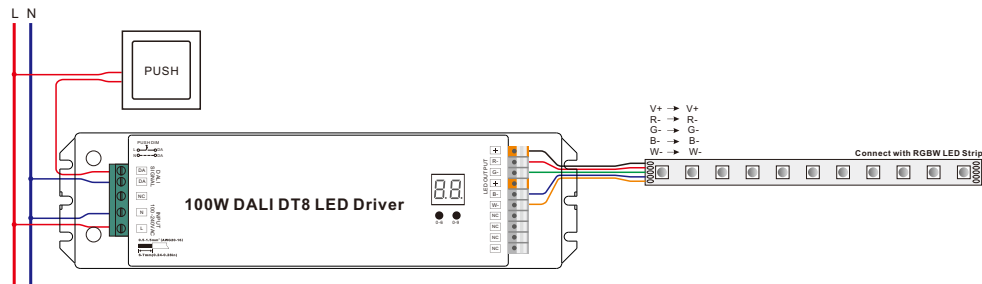
### 2. With PUSH dimmer

#### 2.1 When **7C** multi-addresses Tc device type selected



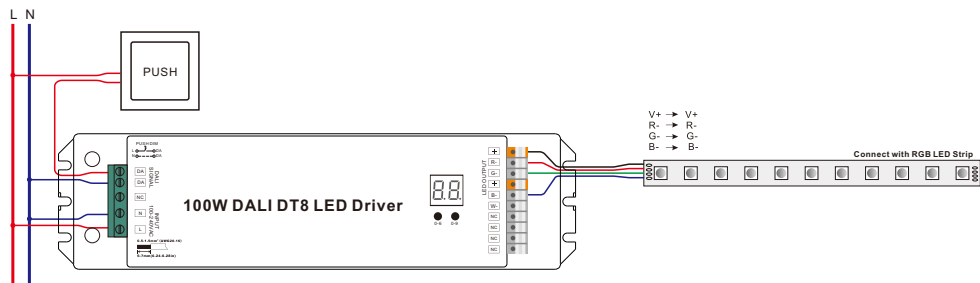
Note: only the 1st group CCT LED can be controlled under this mode.

#### 2.2 When **H6** multi-addresses XY+Single Color(DT6) device type selected



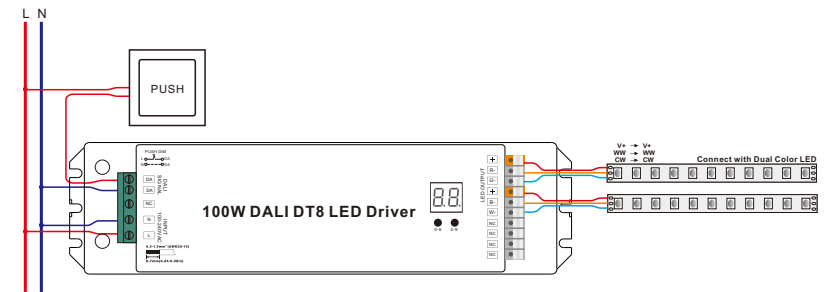
Note: 1) Please make sure that the DALI master controller supports XY & DT6 color type commands.  
2) The control gear will be discovered by master controller as 2 separate devices: XY, DT6

#### 2.3 When **H4** single-address XY device type selected



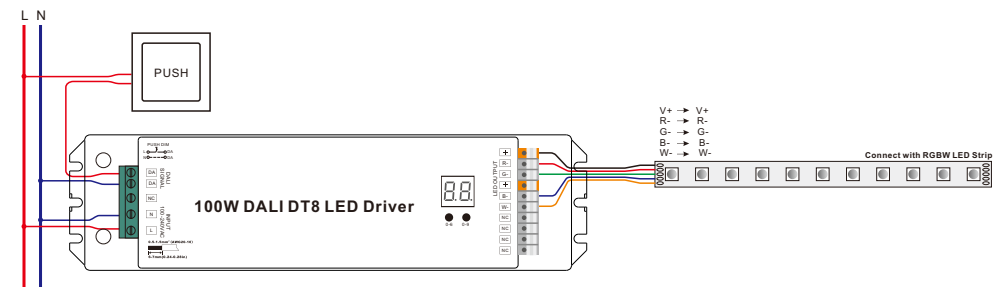
Note: Please make sure that the DALI master controller supports XY color type commands.

#### 2.4 When **7C** single-address Tc device type selected



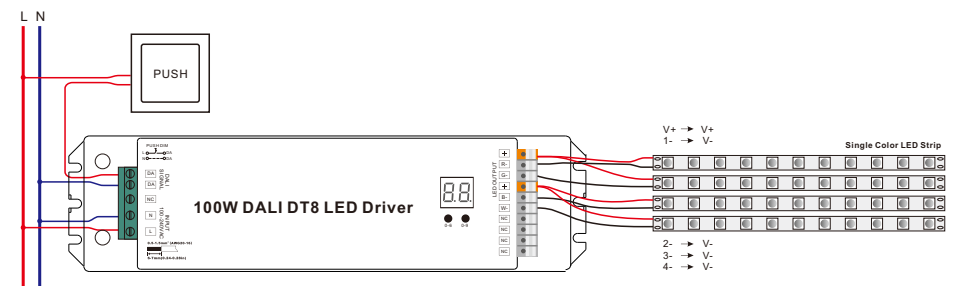
Note: 1) Please make sure that the DALI master controller supports Tc color type commands.  
2) 2 groups CCT LED are controlled together.

#### 2.5 When **r9** single-address RGBWAF device type selected



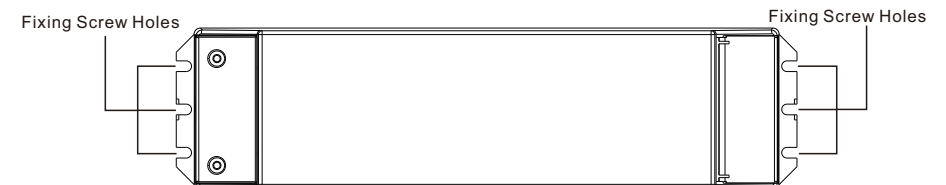
Note: Please make sure that the DALI master controller supports RGBWAF color type commands.

#### 2.6 When **76** single-address DT6 device type selected



Note: all 4 channels are controlled together under this mode.

### Installation



Note: when mounting the driver, please choose any one of the three fixing screw holes to fix with a screw at each end.